



921 Corporate Way, Fremont, CA 94539, USA Tel: +1-510-490-8024 Fax: +1-510-623-7268 Web: <u>http://www.actisys.com</u>, E-mail: <u>irda-info@actisys.com</u>

# ACT-IR220L+/220L/200L

# IrDA PC Adapter

# User's Manual





CE

July 8, 2008 Version 1.5.1.1

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#### FCC Compliance Statement

<ul> <li>This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:</li> <li>(1)This device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.</li> <li>WARNING-FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user authority to operate this equipment</li> </ul>
NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: -Increase the separation between the equipment and receiver. -Reorient or relocate the receiving antenna. -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. -Consult the dealer or an experienced radio/TV technician for helps.
NOTE: Must be used with shielded cable only.
FOR YOU RECORDS         For your assistance in reporting this product in case of loss or theft, please record the model and serial number that is located on the bottom of the case.         Please retain this information.         Model Number
Date of Purchase Place of Purchase
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## **REVISION HISTORY**

Revision History     Revision   Date     Comment		
1.5.1.1	7/08/2008	Updated company address

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#### 1. OVERVIEW

This document provides instructions to install the ACT IR220L+/220L/200L Serial-IR dongle along with Windows 98/ME/2000/XP device driver. It is assumed that the user is familiar with basic operation of Windows.

#### 2. PACKING LIST

When you unpack the package, the following items should be found:

- A. ACT-IR220Lplus or ACT-IR220L or ACT-IR200L.
- B. User's Guide CD

#### **3. SYSTEM REQUIREMENTS**

- To use ACT-IR220L+/220L/220L, your computer MUST meet the following requirements:
- A. Windows 98/ME/2000/XP.
- **B.** One unoccupied Serial (RS232) COM port.
- C. One unoccupied virtual COM port (Com 4)

#### **4. BIOS SETUP VERIFICATION**

Before installing the device driver, you **MUST** setup or verify your BIOS **FIRST**. Below demonstrates an example of ACT-IR220L+ being installed on Com2:

A. Choose PNP & PCI from BIOS SETUP:

PNP OS Installed:	NO
Resource Controlled by:	Manual

B. Choose Integrated Peripherals from BIOS SETUP:

Onboard UART2 Serial Port	2F8H/IRQ3
Onboard IR function:	Disable or
UART2:	Normal

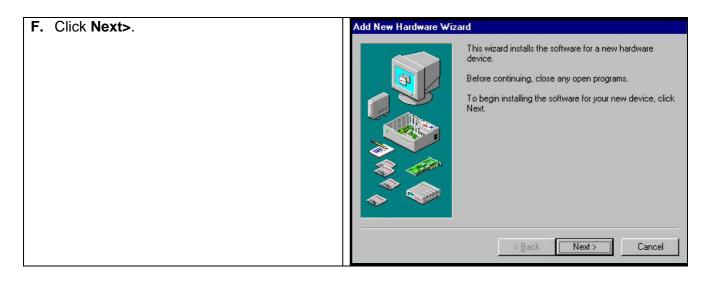


#### 5. WINDOWS 98 INSTALLATION GUIDE

- **Note 1**: If you have not verified your BIOS setup at this point, we strongly recommend you to refer back to the <u>Chapter 4 BIOS SETUP VERIFICATION</u> and verify your BIOS setup again.
- **Note 2**: Verify that the COM port you will use to install ACT-IR220L/220L+/200L has not been already used or occupied by any hardware or software. We recommend users to completely delete any files or drivers that can interrupt clean fresh installation of our product.
- **Note 3**: You are trying to install an SIR product. Your operating system can always be upgraded to use FIR products. However you can never downgrade from an FIR product to an SIR product. Therefore make sure that you have not previously installed any other FIR products on your system.

Followings are the instructions to properly install the ACT-IR220L+/220L/200L Dongle. You need a computer system with Windows 98 already installed and at least one serial port available. The best choice for the system is a desktop PC.

- A. Connect ACT-IR220L+/200L serial adapter to the COM Port of Desktop PC.
- B. Boot up your computer system.
- C. Double Click My Computer on DeskTop.
- **D.** Double Click **Control Panel**.
- E. Double Click Add New Hardware on Control Panel Window.





G. Click Next>.	Add New Hardware Wizard
	Windows will now search for any new Plug and Play devices on your system.           Your screen may go blank during this process. This is normal.           To continue, click Next.
	< <u>B</u> ack Next> Cancel
H. Select No, I want to select the hardware	Add New Hardware Wizard
from a list. Then click Next>.	Windows can now search for hardware that is not Plug and Play compatible, or you can select your hardware from a list.         When Windows detects new hardware, it automatically determines the current settings for the device and installs the correct driver. For this reason it is strongly recommended that you have Windows search for your new hardware?         Do you want Windows to search for your new hardware?         Yes (Recommended)         No. I want to select the hardware from a list.
	< <u>B</u> ack Next > Cancel
I. Highlight Infrared Devices from the	Add New Hardware Wizard
Hardware types list, then click Next>.	Select the type of hardware you want to install.  Hardware types:  CXP  Display adapters  Floppy disk controllers  Global positioning devices  Hard disk controllers  Mining Device  Imfrared devices  Keyboard Memory Technology Drivers (MTDs)

Cancel

< <u>B</u>ack

Next >



J. Click Next>.	Add Infrared Device Wizard
	This wizard will help you install an infrared device.
	Microsoft Infrared Support enables you to - Send and receive files - Print files to IrDA compliant printers - Access a network
	To continue, click Next.
	< <u>B</u> ack Cancel
K. From Manufacturers list, choose	Add Infrared Device Wizard
[Infrared COM port or dongle]. From	Click the manufacturer of the infrared device. Then click the infrared device type that matches your hardware. Then click OK. If you have an installation
Infrared Devices list, choose (Generic	disk for this device, click Have Disk.
Infrared Serial Port or dongle). Then	Manufacturers: Infrared Devices:
click <b>OK&gt;</b> .	Infrared COM port or dongle)       (Generic Infrared Serial Port or dongle)         IBM       Infrared PnP Serial Port         National Semiconductor       Infrared PnP Serial Port (*PNP0510)         SMC       Toshiba
	Winbond Electronics Corp. Have Disk
	OK Cancel
L. Choose ACTISYS IR-200L if you are an	You have selected the following infrared device:
ACT-IR 200L user. Then click Next.	[Generic Infrared Serial Port or dongle]
	Infrared Transceiver Generic Infrared Port
	ACTISYS 200L ACTISYS 220L Adaptec AlRport 2000 AMP PHASIR ESI-9880 JetEye PC
	Please make your selection. To continue, click Next.
	< <u>B</u> ack Next> Cancel



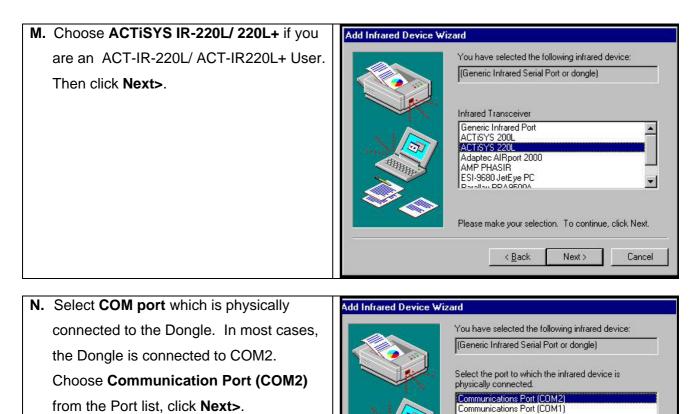
Communications Port (COM4)

< <u>B</u>ack

Please make your selection. To continue, click Next.

Next >

Cancel



O. Reboot your computer.

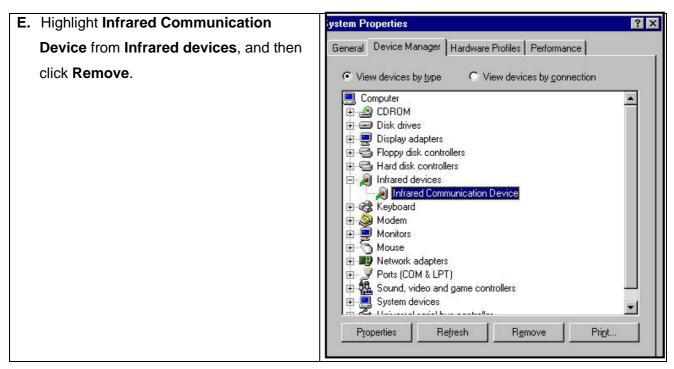
from the Port list, click Next>.



#### 6. WINDOWS 98 UNINSTALLATION GUIDE

- A. Boot up your computer system.
- B. Click Control Panel.
- C. Double click System Icon.

D. Click Device Manager tab.	System Properties
	General Device Manager Hardware Profiles Performance
	System:
	Microsoft Windows 98 4.10.1998
	Registered to:
	actisys
	13001-0EM-0070617-35813
	Computer:
	GenuineIntel
	Pentium(r) Processor
	64.0MB RAM





F. Click OK in the Confirm Device Removal	Confirm Device Removal
box.	Infrared Communication Device
	Warning: You are about to remove this device from your system.
	OK Cancel
G. Highlight (Generic Infrared Serial Port	System Properties ? ×
or dongle), then click Remove.	System Properties ? × General Device Manager Hardware Profiles Performance
or dongle), then click Kemove.	View devices by type     C View devices by connection
	Disk drives     Display adapters     Floppy disk controllers     Hard disk controllers     Hard disk controllers     Modem     Monitors     Mouse     Monitors     Mouse     Mouse
H. Click OK in the Confirm Device	Confirm Device Removal
Removal.	(Generic Infrared Serial Port or dongle) Warning: You are about to remove this device from your system.

Cancel

ÖK



I. Click <b>Yes</b> to restart your computer.	System Settings Change
	To finish removing your hardware, you must restart your computer.         Do you want to restart your computer now?         Yes



#### 7. WINDOWS 2000 INSTALLATION GUIDE

- **Note1.**: If you do not change your computer BIOS setting, **STOP** here and go to Chapter 4 BIOS SETUP VERIFICATION.
- **Note2**: If your computer system has installed some devices on the same com port before, you **MUST** properly uninstall the devices first. ACT-IR220L+/220L/200L would **NOT** work with your system any more if the devices are uninstalled improperly because some drivers are still there and cause conflicts with ACT-IR220L+/220L/200L driver. You **HAVE** to re-install your Windows 2000 again.
- **Note3**: If your computer system has installed an **FIR** device before, ACT-IR220L+/220L/200L would **NOT** work with your system any more. You **HAVE** to re-install your Windows 2000 again.
- **Note4**: If you want to use **Virtual COM Port** in your application, **STOP** here and change IR220L+/IR220L/IR200L to USB-IR Dongle.

Following are the instructions to properly install the ACT-IR220L+/220L/200L Dongle. You need a computer system with Windows 2000 already installed and at least one serial port available. The best choice for the system is a desktop PC.

- A. Connect ACT-IR220L+/200L serial adapter to the COM Port of Desktop PC.
- B. Startup your computer system
- C. Click on Control Panel.
- D. Double Click Add/Remove Hardware.

E.	On Welcome to the Add/Remove Hardware Wizard, click Next>.	Welcome to the Add/Remove Hardware Wizard This wizard helps you add, remove, unplug, and troubleshoot your hardware.	
		To continue, click Next.	



F. Choose Add/Troubleshoot a device,	Add/Remove Hardware Wizard
then click <b>Next&gt;</b> . You may have to wait a	Choose a Hardware Task Which hardware task do you want to perform?
while when the wizard searches for Plug and Play hardware.	<ul> <li>Select the hardware task you want to perform, and then click Next.</li> <li>Add/Troubleshoot a device Choose this option if you are adding a new device to your computer or are having problems getting a device working.</li> <li>Uninstall/Unplug a device Choose this option to uninstall a device or to prepare the computer to unplug a device.</li> </ul>
	< Back Next > Cancel
G. Highlight ADD a new drive then click	Add/Remove Hardware Wizard
Next>.	Choose a Hardware Device Which hardware device do you want to troubleshoot?
	The following hardware is already installed on your computer. If you are having problems with one of these devices, select the device, and then click Next. If you are attempting to add a device and it is not shown below, select Add a new device, and then click Next. Devices Add a new device Propopy disk drive MITSUMI CD-ROM FX810T IB WDC WD200EB-00BHF0 SISAPNP Read Data Port Realtek RTL8029(AS)-based PCI Ethernet Adapter Intel 82371SR PCI to ISA bridge Above Stack Next Cancel

H. Choose No, I want to select the	Add/Remove Hardware Wizard
hardware form a list then click Next>	Find New Hardware Windows can also detect hardware that is not Plug and Play compatible.
	When Windows detects new hardware, it checks the current settings for the device and installs the correct driver.
	Do you want Windows to search for your new hardware?
	C Yes, search for new hardware
	No, I want to select the hardware from a list
	< Back Next > Cancel



I. Select the Infrared device from the	Add/Remove Hardware Wizard
Hardware types.	Hardware Type What type of hardware do you want to install?
	Select the type of hardware you want to install. Hardware types: DE ATA/ATAPI controllers DEEE 1394 Bus host controllers Dimaging devices Dima
J. From Manufacturers list, choose	
	Add/Remove Hardware Wizard Select Infrared Device
ACTISYS, from Infrared Device list,	Which infrared device do you want to install?
choose ACTISYS IR-200L Serial Infrare	Click the Infrared Device that matches your hardware, then click OK. If you have an installation disk for this component, click Have Disk.
<b>Device</b> for IR200L; click <b>Next</b> >.	
	Manufacturers:       Infrared Device:         (Standard Infrared Port)       ACTISYS         ACTISYS       AMP         Extended Systems       ACTISYS IR-220L + Serial Infrared Device         Greenwich Instruments Ltd       Hewlett Packard         Parallax       Have Disk
	< Back Next> Cancel
K. Choose ACTiSYS IR-220L Serial	Add/Remove Hardware Wizard
Infrared Device for IR220L, click Next>.	Select Infrared Device Which infrared device do you want to install?
	Click the Infrared Device that matches your hardware, then click OK. If you have an installation disk for this component, click Have Disk.
	Manufacturers:       Infrared Device:         [Standard Infrared Port]       ACTISYS IR-200L Serial Infrared Device         AMP       ACTISYS IR-220L Serial Infrared Device         Extended Systems       ACTISYS IR-220L+ Serial Infrared Device         Greenwich Instruments Ltd       Image: Serial Infrared Device         Hewlett Packard       Image: Serial Infrared Device         Have Disk       Have Disk
	<back next=""> Cancel</back>



L. Choose ACTiSYS IR-220L+ Serial	Add/Remove Hardware Wizard			
Infrared Device for IR220L+, click Next>.	Select Infrared Device Which infrared device do you want to install?			
	Click the Infrared Device that matches your hardware, then click OK. If you have an installation disk for this component, click Have Disk.  Manufacturers: Infrared Device: ACTISYS AMP Extended Systems Greenwich Instruments Ltd Hewlett Packard Parallav Have Disk Have Disk			
	< Back Next > Cancel			
M. Click Next>.	Add/Remove Hardware Wizard         Start Hardware Installation         Windows is ready to install drivers for your new hardware.         Image: ACTISYS IR-220L+ Serial Infrared Device         Windows will use default settings to install the software for this hardware device. To install the software for your new hardware, click Next.         Image: ACTISYS IR-220L+ Serial Infrared Device         Windows will use default settings to install the software for this hardware device. To install the software for your new hardware, click Next.         Image: ACTISYS IR-220L+ Serial Infrared Device         Windows will use default settings to install the software for this hardware device. To install the software for your new hardware, click Next.         Image: ACTISYS IR-220L+ Serial Infrared Device         Windows will use default settings to install the software for this hardware device. To install the software for your new hardware, click Next.         Image: ACTISYS IR-220L+ Serial Infrared Device         Image: ACTISYS IR-220L+ Serial Infrared Device         Windows will use default settings to install the software for your new hardware, click Next.         Image: ACTISYS IR-220L+ Serial Infrared Device         Image: ACTISYS IR-220L+ Serial Infrared Device			
N. Choose COM2 in the most cases, then	Add New Hardware Wizard			
click <b>Next&gt;</b> .	Select the Communications Port your Infrared device is attached to, then click Next. Serial Port: COM1 COM2 COM3			

#### O. Click Finish.

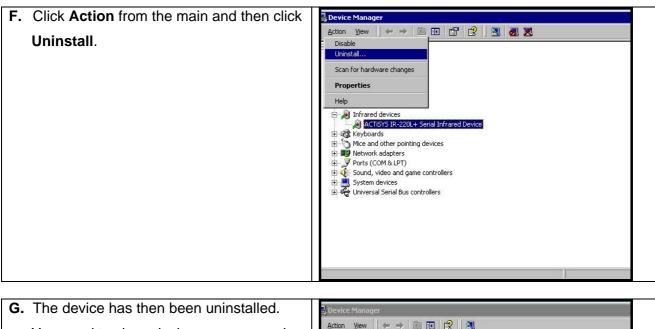


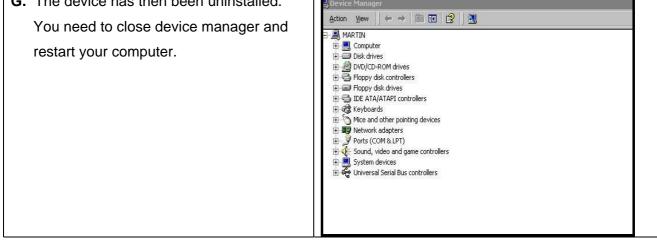
#### 8. WINDOWS 2000 UNISTALLATION GUIDE

- A. Startup your computer system.
- **B.** Click on **Control Panel**.
- C. Double click System Icon.

<b>D.</b> Click on <b>Hardware</b> tab, then click <b>Device</b>	System Properties ? X			
Manager button.	General       Network Identification       Hardware       User Profiles       Advanced         Hardware       Wizard         The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.			
	Hardware Wizard			
	Device Manager			
	The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.			
	Driver Signing Device Manager			
	- Hardware Profiles			
	Hardware profiles provide a way for you to set up and store			
	different hardware configurations.			
	Hardware Profiles			
E. Click on Infrared devices, then highlight	Device Manager			
ACTiSYS IR-220L+Serial Infrared	Action View   ← → 📾 🖬 🖆 😫 🕺 🛃 🔀			
	I MARTIN ⊞-III Computer			
Device.	🗄 💳 Disk drives			
	⊕- ﷺ DVD/CD-ROM drives     ⊕-  Floppy disk controllers			
	🕀 📼 Floppy disk drives			
	由 🚭 IDE ATA/ATAPI controllers 근 🔊 Infrared devices			
	CTISYS IR-220L+ Serial Infrared Device ⊕ - 4 Keyboards			
	🗄 🕤 Mice and other pointing devices			
	⊕			
	표·물 System devices 표·육 Universal Serial Bus controllers			







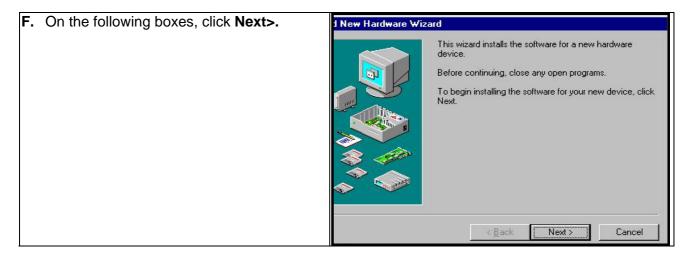


#### 9. WINDOWS ME INSTALLATION GUIDE

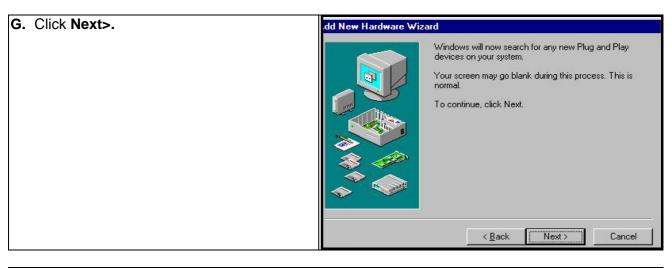
- **Note 1**: If you have not verified your BIOS setup at this point, we strongly recommend you to refer back to Chapter 4 BIOS SETUP VERIFICATION and verify your BIOS setup again.
- **Note 2**: Verify that the Com port you will use to install ACT-IR220L/220L+/200L has not been already used or occupied by any other hardware or software. We recommend users to completely delete any files or drivers that can interrupt clean fresh installation of our product.
- **Note 3**: You are trying to install an SIR product. Your operating system can always be upgraded to use FIR products. However you can never downgrade from an FIR product to an SIR product. Therefore, make sure that you have not previously installed any other FIR product on your system.
- **Note 4**: You may experience problems if you are using a beta version of **Windows ME** or an old upgraded edition of **Windows ME**. Some **German** version of Windows ME has also known on lacking of virtual COM port. This problem may make our device incapable of communicating with the other devices.

Following are the instructions to properly install the ACT-IR220L+/220L/200L Dongle. You need a computer system with Windows ME already installed and at least one serial port available. The best choice for the system is a desktop PC.

- A. Connect ACT-IR220L+/220L/200L serial adapter to the COM Port of Desktop PC.
- **B.** Boot up your computer system.
- C. Double Click My Computer icon on DeskTop
- D. Double click Control Panel icon.
- E. Double click Add New Hardware icon.







#### H. Choose No. I want to select the hardware Idd New Hardware Wizard

from a list. Then click Next>.



Windows can now search for hardware that is not Plug and Play compatible, or you can select your hardware from a list.

When Windows detects new hardware, it automatically determines the current settings for the device and installs the correct driver. For this reason it is strongly recommended that you have Windows search for your new hardware.

Do you want Windows to search for your new hardware?

Next>

Cancel

C Yes (Recommended)

< <u>B</u>ack

No, I want to select the hardware from a list.

Ι.	If you can not find Infrared device from	.dd New Hardware Wizard	
	Hardware types list, choose Other	Select the type of hardware you want to install.	
	devices from the Hardware types list, then	Hardware types:	-
	click <b>Next &gt;.</b> Otherwise go to step <b>P</b> .	Memory Technology Drivers (MTDs)         Modem         Monitors         Mouse         Multi-function adapters         Network adapters         Other devices         PCMCIA socket         Printer         < Back       Next >         Cancel	



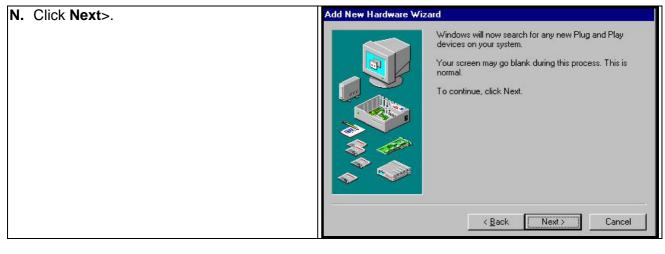
Add New Hardware Wizard J. From Manufacturers list, choose (legacy Select the manufacturer and model of your hardware. serial infrared device). From Models list, If your hardware is not listed, or if you have an installation disk, click Have Disk.If your hardware is still not listed, click Back, and then select a different hardware type. choose ACT-IR200L or IR220L+ Infrared Wireless Interface, then click Next>. Manufacturers: Models: (detected net drivers) • ACT-IR200L Infrared Wireless Interface ٠ (Generic USB Hub) ACT-IR220L Infrared Wireless Interface (Infrared COM port or dong) Adaptec AIRport 1000 [Infrared Composed -[legacy serial infrared devic [Multi-function PC Card Par AIRport APA-9320 External Infrared Adapter AMP PHASIR ndard 1394 controllers) JetEye PC Infrared PC Interface (ESI-9680) -Parallax LiteLink PBA9500A Have Disk

K. Click Finish.	t New Hardware Wizard
	<ul> <li>Windows can continue installing your hardware now.</li> <li>To continue installing the software needed by your hardware, click Finish.</li> </ul>
	< <u>Back</u> Cancel

1.	Double click Add New Hardware icon.	🗟 Control Panel						_ 8 ×
		∫ <u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> o	ools <u>H</u> elp					
		] 🗇 Back 🔹 🖒 🔹 🔁 🗌 🔞 S	earch 🗂 Folder	rs 🎯 Histo	ry   🖹 🕼 .	X 🗤 🛙	E -	
		Address M Control Panel					1	∙ ¢Go
			E	-	*	1	B	<u></u>
		Control Panel	Accessibility Options	Add New Hardware	Add/Remove Programs	Automatic Updates	Date/Time	
		Add New Hardware Adds new hardware to your system.			-A	Aa	es.	
		Windows Update	Dial-Up Networking	Display	Folder Options	Fonts	Gaming Options	
		Technical Support	<b>(</b>		2	Ø	<b>9</b> 2	
			Internet Options	Keyboard	Modems	Mouse	Network	
					ų,	, see	3	
			ODBC Data Sources (32bit)	Passwords		Printers	Regional Settings	
				0				•
		Adds new hardware to your system.				Į.	🛃 My Computer	

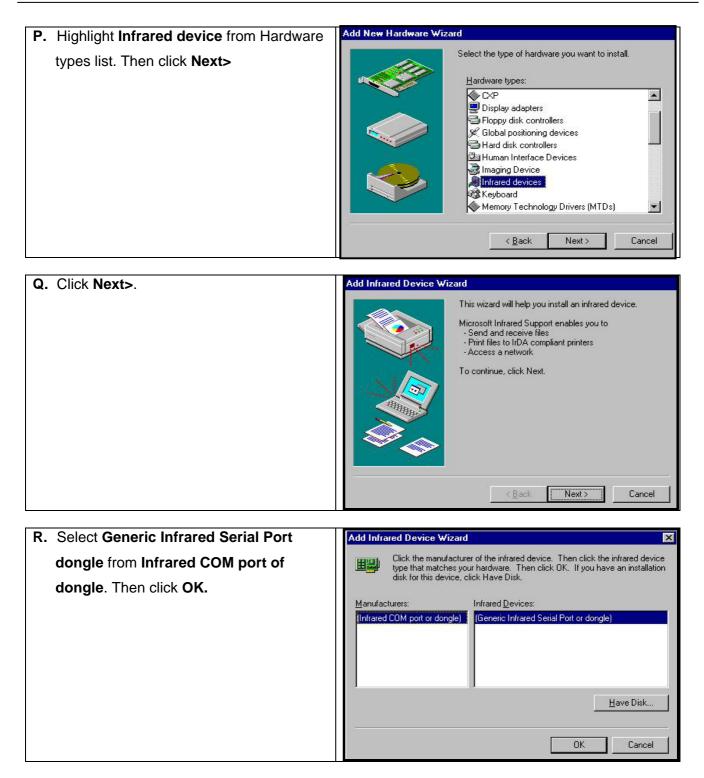


M. Click Next>.	ew Hardware Wizard
	<ul> <li>This wizard installs the software for a new hardware device.</li> <li>Before continuing, close any open programs.</li> <li>To begin installing the software for your new device, click Next.</li> </ul>
	< Back Cancel

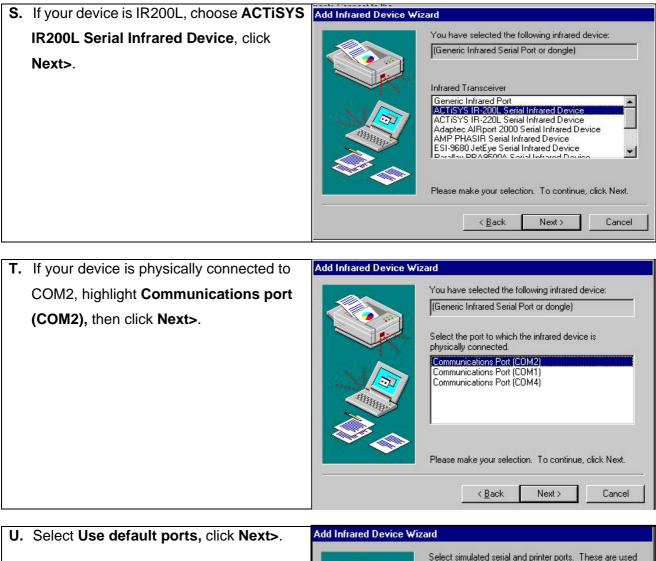


O. Choose No. I want select the hardware	Add New Hardware Wizard			
from a list, then click Next>.	Windows can now search for hardware that is not Plug and Play compatible, or you can select your hardware from a list.         When Windows detects new hardware, it automatically determines the current settings for the device and installs the correct driver. For this reason it is strongly recommended that you have Windows search for your new hardware?         O you want Windows to search for your new hardware?         Yes (Recommended)         No. I want to select the hardware from a list         (Back       Next >			









U. Select Use default ports, click Next>.	Add Infrared Device Wizard
	Select simulated serial and printer ports. These are used by infrared applications to access the infrared device.
	Infrared serial (COM) port: COM5
	Infrared printer (LPT) port: LPT3
	To use these as your infrared ports, click 'Use default ports'. To specify different ports, click 'Change ports'.
	Use default ports (recommended)
	C Change ports
	< <u>B</u> ack Next> Cancel



۷.	Click Finish	Add Infrared Device Wizard		
			Click Finish to complete the installation of your infrared device.	
			< Back Finish Cancel	



### **10. WINDOWS ME UNINSTALLATION GUIDE**

#### A. Double click System icon on Control Panel.

В.	Go to Device Manager, highlight the	General Device Manager Hardware Profiles Performance
	items in the <b>Infrared devices</b> .	<ul> <li>View devices by type</li> <li>View devices by connection</li> <li>Computer</li> <li>CDROM</li> <li>Disk drives</li> <li>Display adapters</li> <li>Floppy disk controllers</li> <li>Hard disk controllers</li> <li>Hard disk controllers</li> <li>Infrared devices</li> <li>ACT-H2200L Infrared Wireless Interface</li> <li>Monitors</li> <li>Monitors</li> <li>Network adapters</li> <li>Generic Infrared Serial Port or dongle)</li> <li>Dial-Up Adapter</li> </ul>
1		

C. From the Infrared devices, highlight	General Device Manager Hardware Profiles Performance
Infrared Communication Device, right	View devices by type     View devices by <u>c</u> onnection
click the quick menu, then click <b>Remove</b>	Computer
button.	CDROM     Disk drives     Display adapters     Display adapters     Floppy disk controllers     Hard disk controllers     Art-lR200L Infrared Wireless Interface     ACT-IR200L Infrared Wireless Interface

D. From Network adapters, highlight	General Device Manager Hardware Profiles Performance
(Generic Infrared Serial Port or dongle),	View devices by type     C View devices by connection
then click <b>Remove</b> button. Click <b>OK</b> button.	Computer     Consputer     Consputer     Disk drives     Display adapters     Floppy disk controllers     Floppy disk controllers     Infrared devices     Monitors     Monitors     Monitors     Monitors     Monitors     Prote (COM & LPT)     System devices     Universal Serial Bus controllers      Properties     Refresh     Regmove     Print
	OK Cancel

E. The device has been successfully uninstalled then.



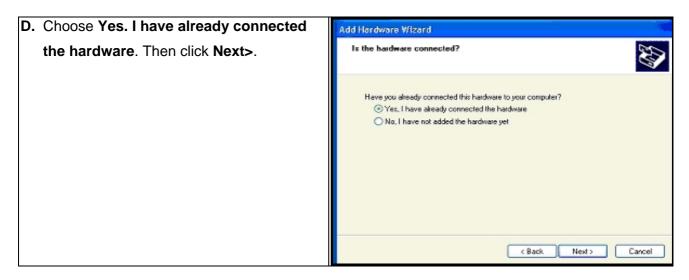
#### 11. WINDOWS XP INSTALLATION GUIDE

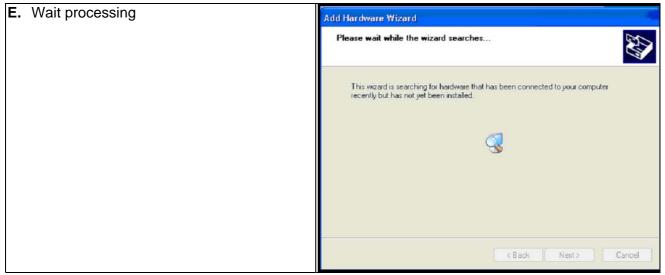
A. From Start menu, open Control Panel.











F. Choose Add a new hardware device.	Add Hardware Wizard
Then click <b>Next&gt;</b> .	The following hardware is already installed on your computer
	From the list below, select an installed hardware device, then click Next to check properties or troubleshoot a problem you might be having. To add hardware not shown in the list, click. "Add a new hardware device." Installed hardware:
	Processor Promise Technology Inc. Ultra IDE Controller Intel(t) 82371AB/EB PCI to USB Universal Host Controller USB Root Hub Generic USB Hub Add a new hardware device
	< Back Next> Cancel



G. Choose install the hardware that I manually	Add Hardware Wizard
select from a list (Advanced). Then click	The wizard can help you install other hardware
Next>.	The wizard can search for other hardware and automatically install it for you. Or, if you know exactly which hardware model you want to install, you can select it from a list.  What do you want the wizard to do?  Search for and install the hardware automatically (Recommended)  Search for and install the hardware that I manually select from a list (Advanced)  (Back Next> Cancel
	< Back Next> Cancel

H. Choose Infrared devices. Then click Next>	Add Hardware Wizard		
	From the list below, select the type of hardware you are installing		
	If you do not see the hardware category you want, click Show All Devices. Common hardware types:		
	Show All Devices  Show All Devices  Display adapters  DE ATA/ATAPI controllers  EEE 1394 Bus host controllers		
	Imaging devices     Infrared devices     Modems     Multi-port serial adapters		
	Hill Nature adapter     Kack Next> Cancel		

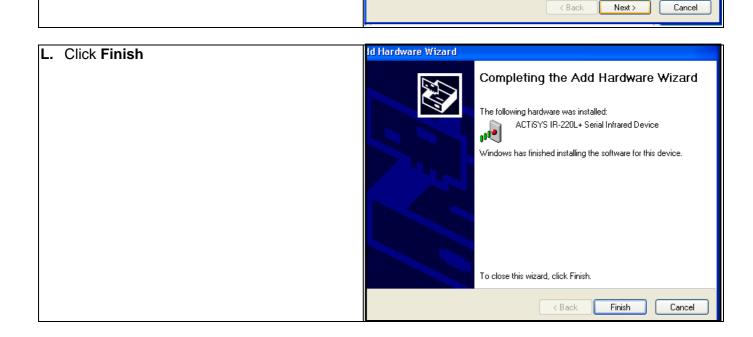
I.	Choose respective ACT model from Infrared	Add Hardware Wizard		
<b>Device</b> . Then click <b>Next&gt;</b>	Select Infrared Device Which infrared device do you want to install?			
	Click the Infrared Device that matches your hardware, then click OK. If you have an installation disk for this component, click Have Disk.			
		and a second	^	Infrared Device:
	(Standard Infrared Port) ACTISYS AMP Extended Systems Greenwich Instruments Ltd	•	ACTISYS IR-200L Serial Infrared Device ACTISYS IR-220L Serial Infrared Device ACTISYS IR-220L+ Serial Infrared Device	
	This driver is digitally signed Tell me why driver signing i			
				< Back Next> Cancel



The Wireless Connectivity Expert

J.	Click Next>	Add Hardware Wizard		
		The wizard is ready to install your hardware		
		Hardware to install: ACTISYS IR-220L+ Serial Infrared Device To start installing your new hardware, click Next. ( Back Next ) Cancel		
ĸ	Choose the Com port which the device	Add Hardware Wizard		
Γ.	physically connected. Click <b>Next&gt;</b>	Infrared Device Installation Select the port you want to install the Infrared device on.		
		Select the Communications Port your Infrared device is attached to, then click Next.		
		Serial Port:		

COM1 COM2

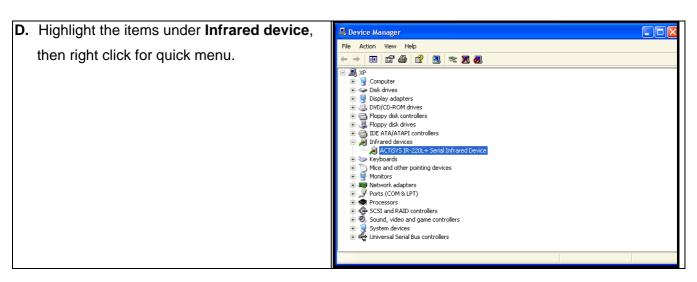




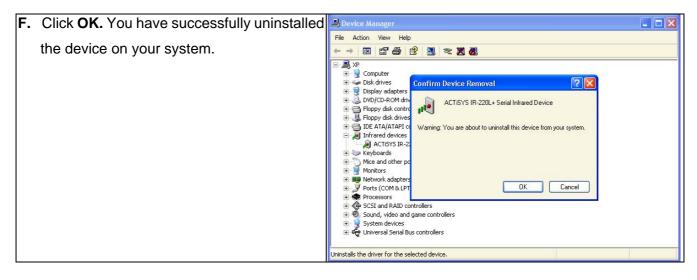
## **12. WINDOWS XP UN-INSTALLATION GUIDE**

A. Highlight My Computer, then right click for	Administrator		
quick menu.	E-mail Outlook Express	My Documents	
	Files and Settings Transfer Wizard MSN Explorer	<sup>少</sup> My Pictures <sup>か</sup> My Music 調 My Computer	
	Windows Movie Maker	C Gives access to, and information about, the disk driv other hardware connected to your computer. Printers and Faxes C Help and Support	res, cameras, scanners, and
	All Programs 🕨	<ul> <li>✓ Search</li> <li>✓ Run</li> <li>Log Off O Turn Off Computer</li> </ul>	
	🛃 start 🛛 🗒 10-1 - WordP	Pad 🔁 220	🔏 🍇 3:25 PM
B. Select Properties.	Administrator		
	Internet Explorer Internet Explorer	My Documents     My Recent Documents     My Recent Documents     My Pictures	
	Riles and Settings Transfer Wizard	📂 My Music	
	Windows Media Player	Open Explore Search	
	Tour Windows XP	Printers and Fe     Manage     Map Network Drive     Disconnect Network Drive     Search     Search     Search	
		Run Properties	
	🛃 start 🔄 1 - WordPad	220	🦂 🏡 3:25 PM
C. Click Device Manager from Hardware page.	My Compute System Restore General Co Command Prompt Windows Explorer	Automatic Updates Premote omputer Name Hardware Advanced ard Hardware Wizard helps you install hardware. Add Hardware Wizard ce Manager lists all the hardware devices installed omputer. Use the Device Manager to change the	
	Recycle Bin 220 Properties Driv Hardware Profiles Hardware	r of any device. iver Signing Device Manager profiles provide a way for you to set up and store nardware configurations. Hardware Profiles	
	📲 start 🗖 2 - WordPad	220	A 48 3:26 PM











G. Click Yes to reboot your computer.	🚇 Device Manager	🛛
	File Action View Help	
	Image: System Settings Change         Image: Set	
	Uninstalls the driver for the selected device.	



## **13. TROUBLE SHOOTING**

For help on general and miscellaneous problems you may be experiencing with your printing, refer to the following pages for possible solutions. Look up your problem and try the solution.

SYMPTOM	PROBLEM	Solution
Can not establish link (General)	<ol> <li>The two IR devices are not aligned properly.</li> <li>Distance is too near or far.</li> <li>The device is inactivated.</li> <li>The device is not installed properly</li> </ol>	<ol> <li>Properly align them again.</li> <li>Move one device to a proper distance.</li> <li>Activate it by IR monitor.</li> <li>Refer to Un-installation Guide to remove the device, then reinstall again.</li> </ol>
ACT-IR200L/220L+ is connected to and takes power only from the serial port of the notebook computer.	The power-saving feature in the notebook computer either stops or reduces power output from the	Set the "Power Management" control to "Advanced" or "Off" to enable power supplied from computer serial port to ACT-IR200L/220L+ devices. Go to Integrate Peripheral to set the COM port to "Infrared". Do not install more than one infrared devices on one computer.
File Transfer between IR-equipped PDA and ACT-IR device-attached host computer stops before finishing up and an error message appears.	The infrared communication is interfered. For example, something blocks out the infrared beam or the burst of string light source, etc. Software does not support the IrDA controller chip on the motherboard. Serial port is occupied and not available for IR transmission.	Check to find out the source of interference and eliminate it before trying again. If you were restoring data, simply try again. If you were doing backup something the PDA does not reset its flags and keeps stopping at the same position unless you press the RESET button once. Be very careful. DO NOT initialize (press ON key and RESET button at the same time) your PDA. Otherwise you may lose all your data. Make proper model # selection in the software as specified in your PC system user`s manual. Make sure to disconnect modem, etc. from the serial port to make it available for IR transmission.



#### **14. SPECIFICATIONS**

Model:	ACT-IR220L+/ACT-IR220L/ACT-IR200L	
Carrier:	Infrared radiation (peak wavelength: 850 to 1050 nm)	
Sub-Carrier:	500 KHz for SHARP ASK-IR and ASK(37KHz) for TV remote spec.(IR200L only)	
Communication Distance:	IR200L From 0 to 80 cm. For best results, from 20 to 60 cm (7.9 in to1 ft. 11.6 in)	
	IR220L From 0 to 250 cm. For best results, from 10 to 150 cm (3.95 in to 4 ft. 11.05 in)	

	SHARP ASK-IR:	IrDA-IR:
Baud Rate:	9600 bps to 38.4K bps (IR200L only)	9.6,19.2,(38.4),57.6,115.2K bps (IR200L/220L+)
Parity Bit:	Odd	None
Data:	8 bit	8 bit
Stop Bit:	1 bit	1 bit
Error Check:	Check Sum	CRC

Serial Interface:	Cable Interface (to host computer)		
Signal Level:			
Connector:	nector: DB-9 female connector		
Power Source:	Source: PC RS-232 Serial Port		
Power Consumption:	0.30mW (11mA max.)		
Operating	0°C to 40°C (32°F to 104°F)		
temperature:			
Dimensions:	2.0 in. L x 1.63 in W x 0.62 in H (51mm x 41mm x 16mm)		
Weight:	2.0 oz (54 gr.)		
Accessories:	User Manual		
Optional Accessories:	DB9/DB25 Converter ; IR Software for Windows 95/98/ME/2000		

Pin Assignments of Serial Interface DB9 female connector					
Pin	Name	Symbol	I/O	Function	
2	Receive Data	RXD	I	Input signal	
3	Transmit Data	TXD	0	Output signal	
4	Data Terminal Ready	DTR	0	For data link to build up and maintain	
5	Signal Ground	GND	-	Reference ground (0V) for all signals	
7	Request to send	RTS	0	Output signal from host computer	
8	Clear to send	CTS	I	Input signal to host computer	



#### **15. WARRANTY INFOMATION**

THE FOLLOWING WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE THE OTHER RIGHTS WHICH VARY FROM STATE TO STATE:

ACTiSYS Corporation warrants the first end-user purchaser, for a period of one year from the date of purchase, that this wireless interface ("the Product") will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof at no charge to the purchaser for parts or for labor.

This warranty does not apply to any appearance items of the Product, any consumable items such as paper, ink ribbon, or batteries supplied with the Product, or to any equipment or any hardware, software, firmware, or peripheral other than the Product. This warranty does not apply to any Product the exterior of which has been damaged or defected, which has been subjected to misuse, abnormal service or handling, or which has been altered or modified in design, construction or interfacing. **Tampering With Label Voids Warranty**.

In order to enforce the rights under this limited warranty, the purchaser should mail, ship, or carry the Product, together with proof of purchase, to ACTiSYS.

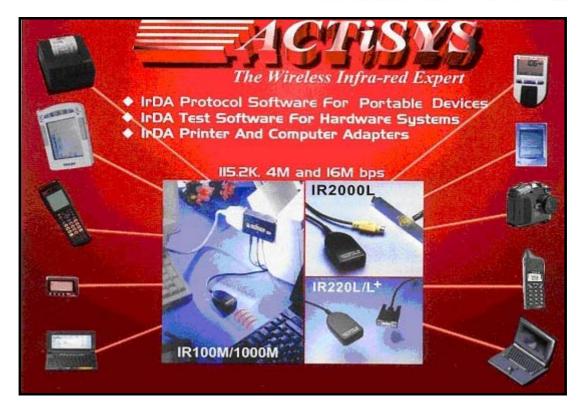
The limited warranty described above is in addition to whatever implied warranties may be granted to purchasers by law. To the extent permitted by applicable law, ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANT ABILITY AND FITNESS FOR USE ARE LIMITED TO A PERIOD OF ONE YEAR FROM THE DATE OF PURCHASE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described above, or to extend the duration of any warranties beyond the time period described above on behalf of ACTiSYS Corporation.

The warranties described above shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described above, shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall ACTISYS Corporation be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than ACTISYS technician. Nor shall ACTISYS Corporation be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply for you.



### **16. CONTACT INFORMATION**

# Go wireless with a Clists in



**ACTiSYS Corporation** 921 Corporate Way Fremont, CA 94539, USA TEL: +1-510-490-8024, FAX: +1-510-623-7268 E-Mail: irda-info@actisys.com Web: http://www.actisys.com